

CLAIMS

[1] An engine valve operating system, comprising a rocker arm (63) which has a valve connecting portion (63a) linked and connected to an engine valve (19) and a cam-abutting portion (65) to abut a valve operating cam (69); a first link arm (61) with one end turnably connected to the rocker arm (63) via a first connecting shaft (64) and the other end turnably supported at a fixed position on an engine body (10); a second link arm (62) with one end turnably connected to the rocker arm (63) via a second connecting shaft (66) disposed side by side in a vertical arrangement with the first connecting shaft (64) and the other end turnably supported by a movable shaft (68a) which is displaceable; drive means (72) connected to the movable shaft (68a), being ready to displace the movable shaft (68a) in order to vary a lift amount of the engine valve (19) continuously; and oil supply means (58) which is fixed to the engine body (10) and supplies oil to the upper one (64) of the first and second connecting shafts (64, 66).

[2] The engine valve operating system according to claim 1, wherein the rocker arm (63) is equipped with a support portion (63b) formed into a substantially U shape so as to sandwich a roller (65) which is the cam-abutting portion from opposite sides; the one end of the first link arm (61) is turnably connected to the support portion (63b) via the first connecting shaft (64) which supports the roller (65); and the oil supply means (58) is disposed on the engine body (10) so as to supply

oil to a mating surface between the first link arm (61) and the support portion (63b).

[3] The engine valve operating system according to claim 1 or 2, wherein the oil supply means (58) is disposed on cam holders (46) installed on the engine body (10) so as to rotatably support a camshaft (31) on which the valve operating cam (69) is mounted.

[4] The engine valve operating system according to any of claim 1 to 3, wherein the oil supply means (58) which is formed of oil jets (58), each with a nozzle hole (58b) provided at the tip of a pipe (58a), is disposed on opposite sides of each cylinder on the engine body (10).

[5] The engine valve operating system according to any of claim 1 to 3, wherein the oil supply means (58) which is formed of the oil jet (58) with the nozzle hole (58b) provided at the tip of the pipe (58a) is disposed on one side of each cylinder on the engine body (10).